

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	423	310/359.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:01
S2	1607	310/330-332.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 09:38
S3	1242	310/348.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:48
S4	267534	piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:48
S5	4728915	recess hole cavity depression concavity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:49
S6	345365	(recess hole cavity depression concavity) with (substrate ceramic semiconductor (printed adj circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:50
S7	16435	S4 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:50
S8	30426	(secondary second) with piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:51

## EAST Search History

S9	3420	S6 and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:51
S10	1065280	insulat\$3 with (layer material)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:50
S11	1574	S9 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/22 11:52
S12	629	310/338.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:08
S13	111862	MOSFET IGBT	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:09
S14	1607	310/330-332.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:09
S15	152	S14 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:09
S16	468	(second\$3 with piezo\$) and (MOSFET IGBT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 08:16

## EAST Search History

S17	30277	(second\$3 with piezo\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 11:55
S18	313599	modulator demodulator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:53
S19	67	S16 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 08:17
S20	1728	S17 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 08:25
S21	433142	rectifier (lock with (device component))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:58
S22	1266	S17 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 13:52
S23	632	310/324.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:47
S24	1008	310/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 14:47

## EAST Search History

S25	46252	modulator and demodulator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:57
S26	4	S24 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:53
S27	3339	modulator and demodulator and rectifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 17:19
S28	419883	(lock\$3 with (device component))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:58
S29	558	S17 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:58
S30	3484	modulat\$3 and demodulat\$3 and rectif\$4 and lock\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:49
S31	267716	piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 17:19
S32	497	S30 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 17:19

## EAST Search History

S33	2259719	rectif\$4 lock\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:49
S34	267716	piezo\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:49
S35	27947	S34 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:49
S36	1627867	(insulat\$3 intermediate center middle) with (layer material)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:50
S37	6208	S35 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:50
S38	313599	modulator demodulator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 06:51
S39	979	S37 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 07:51
S40	1691	310/317,318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 09:56

## EAST Search History

S41	42	S40 and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 10:04
S42	6656	piezo\$ and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 10:04
S43	1202	piezo\$ and demodulat\$3 and rectif\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/28 10:05
S44	102	piezo\$ and (galvanic\$ with isolat\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 17:35
S45	629	310/338.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 17:47
S46	1608	310/330-332.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 17:47
S47	2185	S45 S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 17:47
S48	629	310/338.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:02

## EAST Search History

S49	1608	310/330-332.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:02
S50	2185	S48 S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:02
S51	152	S50 and (demod\$6 lock\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:10
S52	87	S50 and (rectif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/05 18:10
S53	629	310/338.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 07:57
S54	1608	310/330-332.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 07:57
S55	2185	S53 S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:20
S56	152	S55 and (demod\$6 lock\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:20

## EAST Search History

S57	87	S55 and (rectif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:20
S58	225	S56 S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:20
S59	1694	310/317,318.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:20
S60	378	S59 and (demod\$6 lock\$3 rectif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/09 12:21
S61	45	(US-20020175597-\$ or US-20050285476-\$ or US-20020109439-\$ or US-20020017135-\$ or US-20050225203-\$ or US-20060213054-\$ or US-20030102774-\$ or US-20060108944-\$ or US-20040222718-\$ or US-20010017506-\$).did. or (US-7084554-\$ or US-5430342-\$ or US-6888291-\$ or US-6713942-\$ or US-RE33691-\$ or US-6617757-\$ or US-3636469-\$ or US-3594514-\$ or US-6933662-\$ or US-6666090-\$ or US-5886514-\$ or US-5654605-\$ or US-6943785-\$ or US-4096756-\$ or US-5404067-\$ or US-5166573-\$ or US-5233256-\$ or US-4349762-\$ or US-4529904-\$ or US-3624564-\$ or US-2614144-\$ or US-4317368-\$ or US-4546658-\$ or US-6323583-\$ or US-4916349-\$ or US-4363991-\$). did. or (US-7084529-\$ or US-6151232-\$ or US-6013969-\$ or US-5923542-\$ or US-5673041-\$ or US-4594526-\$).did. or (US-3712962-\$ or US-3233466-\$). did. or (DE-3684738-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/04/11 08:37



## EAST Search History

S62	7	S61 and demodulat\$6	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/04/09 14:23
S63	166	piezo\$ and transform\$5 and (modulat\$5 or demodulat\$6)	FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/11 10:41
S64	48	(US-20010017506-\$ or US-20050285476-\$ or US-20020175597-\$ or US-20020109439-\$ or US-20020017135-\$ or US-20060108944-\$ or US-20050225203-\$ or US-20040222718-\$ or US-20060213054-\$ or US-20030102774-\$).did. or (US-6617757-\$ or US-5233256-\$ or US-5166573-\$ or US-RE33691-\$ or US-4594526-\$ or US-4916349-\$ or US-4349762-\$ or US-7084554-\$ or US-6933662-\$ or US-6888291-\$ or US-6713942-\$ or US-6323583-\$ or US-3636469-\$ or US-3594514-\$ or US-5430342-\$ or US-5404067-\$ or US-6666090-\$ or US-5923542-\$ or US-5886514-\$ or US-5654605-\$ or US-6943785-\$ or US-4096756-\$ or US-2614144-\$ or US-7084529-\$ or US-6151232-\$ or US-6013969-\$). did. or (US-5673041-\$ or US-4529904-\$ or US-3624564-\$ or US-4317368-\$ or US-4546658-\$ or US-4363991-\$).did. or (US-3233466-\$ or US-3712962-\$). did. or (JP-55110083-\$).did. or (DE-3684738-\$ or US-5883705-\$ or GB-2013343-\$).did.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	ON	2007/04/11 08:37
S65	19	S64 and (modulat\$5 or demodulat\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 15:01
S66	17	S64 and rectific\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 09:16

## EAST Search History

S67	5	S64 and lock\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 09:19
S68	1	"10555344"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 14:22
S69	67	"logic bistable"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 09:25
S70	100452	"locking device"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 09:25
S71	268555	piezo\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 09:26
S72	576	S70 and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 10:31
S73	5842	piezo\$ and transform\$5 and (lock\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 10:42

## EAST Search History

S74	982	piezo\$ and transform\$5 and (lock\$4 and demodulat\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 10:43
S75	9	("20010035698"   "3707636"   "5341061"   "5736807"   "6075325"   "6278226"   "6724126").PN. OR ("6943785").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 14:15
S76	37	S64 and (frequency resonan\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 14:42
S77	14	S64 and (second with resonan\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 14:52
S78	2	S64 and (multiple with resonan\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 14:52
S79	73	310/317 and (piezo\$ adj transformer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 15:30
S80	205	310/317 and (piezo\$ with transformer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 08:50

## EAST Search History

S81	132	S80 not S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/11 15:31
S82	230	(integrated adj circuit) and switch and (piezo\$ with transformer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 08:50